Category 7 S/FTP 100 Ohm Horizontal LAN Cables

Transmission Properties and Electrical Specifications

FREQ.	Insertion Loss	NEXT	PS NEXT	EL FEXT	PS EL FEXT	RL	TCL	EL-TCTL	PS ANEXT	PS AFEXT
MHz	dB/100m	dB	dB	dB/100m	dB/100m	dB	dB	dB	dB	dB
	Max	Min	Min	Min	Min	Min	Min	Min	Min	Min
1	NS	78.0	75.0	78.0	75.0	20.0	40.0	35.0	67.0	67.0
4	3.74	78.0	75.0	83.3	80.3	23.0	40.0	23.0	67.0	67.0
8	5.24	78.0	75.0	77.2	74.2	24.5	40.0	16.9	67.0	67.0
10	5.86	78.0	75.0	75.3	72.3	25.0	40.0	15.0	67.0	67.0
16	7.41	78.0	75.0	71.2	68.2	26.0	38.0	10.9	67.0	67.0
20	8.29	78.0	75.0	69.3	66.3	25.0	37.0	9.0	67.0	67.0
25	9.29	78.0	75.0	67.3	64.3	24.3	36.0	7.0	67.0	65.2
31.25	10.41	78.0	75.0	65.4	62.4	23.6	35.1	5.1	67.0	63.3
62.5	14.88	75.5	72.5	59.4	56.4	21.5	32.0	NS	67.0	57.3
100	19.02	72.4	69.4	55.3	52.3	20.1	30.0	NS	67.0	53.2
150	23.56	69.8	66.8	51.8	48.8	18.9	28.2	NS	67.0	49.7
200	27.47	67.9	64.9	49.3	46.3	18.0	27.0	NS	67.0	47.2
250	30.97	66.4	63.4	47.3	44.3	17.3	26.0	NS	67.0	45.2
300	34.19	65.2	62.2	45.8	42.8	17.3	NS	NS	67.0	43.7
400	40.01	63.4	60.4	43.3	40.3	17.3	NS	NS	67.0	41.2
500	45.26	61.9	58.9	41.3	38.3	17.3	NS	NS	67.0	39.2
600	50.10	60.7	57.7	39.7	36.7	17.3	NS	NS	65.8	37.6

Characteristic Impedance	100±5 Ohm @ 1-600 MHz
DC Resistance	93.0 Ohm/Km max.
Resistance unbalance	2% max.
Capacitance	45 pF/m nom. @ 1 KHz
Cap. Unbalance (wire to ground)	1500 pF/Km max. @ 1 KHz.
Voltage rating	72 Vdc max.
Dielectric strength	700 Volts/1 minute min rms
Velocity of Propagation (NVP)	77-80%
Propagation delay	$500+36/f^{1/2}$
Delay Skew	25 nS/100m max @ 1-600 MHz.
Insulation Resistance	5000 MegaOhm • Km min. @ 500 Vdc
Coupling attenuation	85 dB min @ 30-100 MHz 85-20Log(f/100) @100-600 MHz
Screening Attenuation	60 dB min @ 30-600 MHz
Transfer Impedance	10 mOhm/m max @ 1-30 MHz 30 MOhm/m max @ 30-100 MHz

Ordering Information

HCS P/N	Description	OD mm	Weight Kg/Km	Cal. Value Kj/m	Packaging	Notes
H07-F0401-DP	4x2x23# S/FTP CAT 7 PVC Grey	7.0	48	660	500m Drum	
H07-F0401-DM	4x2x23# S/FTP CAT 7 PVC Grey	7.0	48	660	1000m Drum	
H07-F0402-DP	4x2x23# S/FTP CAT 7 LS0H Grey	7.0	48	660	500m Drum	
H07-F0402-DM	4x2x23# S/FTP CAT 7 LS0H Grey	7.0	48	660	1000m Drum	
H07-F0803-DP	2x(4x2x23#) CAT 7 S/FTP PVC Grey	7.0x14.2	100	1320	500m Drum	FIG-8
H07-F0803-DM	2x(4x2x23#) CAT 7 S/FTP PVC Grey	7.0x14.2	100	1320	1000m Drum	FIG-8
H07-F0804-DP	2x(4x2x23#) CAT 7 S/FTP LS0H Grey	7.0x14.2	100	1320	500m Drum	FIG-8
H07-F0804-DM	2x(4x2x23#) CAT 7 S/FTP LS0H Grey	7.0x14.2	100	1320	1000m Drum	FIG-8

Flame Test conformance **F=0: IEC 60332-1** **F=C: IEC 60332-3-24** **F=D: IEC 60332-3-25**

Note: Standard jacket color: Light Gray RAL 7035. Other colors available upon request.